

SEQUENCE LISTING

<110> The Government of the United States of America as

<120> A recombinant vector expressing multiple constimulatory
molecules and uses thereof

<130> 20264292PC

<140> TBA

<141> 1999-11-12

<150> 60/111,582

<151> 1998-12-09

<160> 41

<170> PatentIn Ver. 2.1

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PEPTIDE

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Ile Thr Asp Gln Val Pro Pro Ser Val

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Tyr Leu Glu Pro Gly Pro Val Thr Ala

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<223> Description of Artificial Sequence: SYNTHETIC
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Leu Leu Asp Gly Thr Ala Thr Leu Arg Leu

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<223> Description of Artificial Sequence: SYNTHETIC
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Ala Ala Gly Ile Gly Ile Leu Thr Val

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PEPTIDE

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<223> Description of Artificial Sequence: SYNTHETIC
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Met Leu Leu Ala Val Leu Tyr Cys Leu

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<223> Description of Artificial Sequence: SYNTHETIC PEPTIDE

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<223> Description of Artificial Sequence: SYNTHETIC
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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

Glu Ala Asp Pro Thr Gly His Ser Tyr

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<223> Description of Artificial Sequence: SYNTHETIC
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Ser Ala Tyr Gly Glu ~~Pro~~/Arg Lys Leu

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Glu Val Asp Pro Ile Gly His Leu Tyr

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Val Leu Pro Asp Val Phe Ile Arg Cys

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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

Ala Tyr Gly Leu Asp ~~Phe~~ Tyr Ile Leu

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PEPTIDE

Tyr Leu Ser Gly Ala Asn Leu Asn Leu

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Tyr Leu Ser Gly Ala Asp Leu Asn Leu

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PEPTIDE

<400> 25

Ser Tyr Leu Asp Ser Gly Ile His Phe

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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

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Glu Glu Lys Leu Ile Val Val Leu Phe

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Lys Ile Phe|Gly Ser Leu Ala Phe Leu

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PEPTIDE

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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

<400> 31

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Val Thr Ser Ala
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$\langle 211 \rangle$ 30

<212> PRT

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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

<400> 32

Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His Val Ile Ser
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Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr Lys
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<210> 33

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

<400> 33

Phe Leu Thr Pro Lys Lys Leu Gln Cys Val
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<210> 34

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

<400> 34

Lys Leu Gln Cys Val Asp Leu His Val
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<210> 35

<211> 10

<212> PRT

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Case	Age	Sex	Site	Pathologic	Survival
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2	65	F	Rectum	Adenocarcinoma	12 years
3	70	M	Rectum	Adenocarcinoma	15 years
4	75	F	Rectum	Adenocarcinoma	18 years
5	80	M	Rectum	Adenocarcinoma	20 years
6	85	F	Rectum	Adenocarcinoma	22 years
7	90	M	Rectum	Adenocarcinoma	25 years
8	95	F	Rectum	Adenocarcinoma	28 years
9	100	M	Rectum	Adenocarcinoma	30 years
10	105	F	Rectum	Adenocarcinoma	32 years
11	110	M	Rectum	Adenocarcinoma	35 years
12	115	F	Rectum	Adenocarcinoma	38 years
13	120	M	Rectum	Adenocarcinoma	40 years
14	125	F	Rectum	Adenocarcinoma	42 years
15	130	M	Rectum	Adenocarcinoma	45 years
16	135	F	Rectum	Adenocarcinoma	48 years
17	140	M	Rectum	Adenocarcinoma	50 years
18	145	F	Rectum	Adenocarcinoma	52 years
19	150	M	Rectum	Adenocarcinoma	55 years
20	155	F	Rectum	Adenocarcinoma	58 years
21	160	M	Rectum	Adenocarcinoma	60 years
22	165	F	Rectum	Adenocarcinoma	62 years
23	170	M	Rectum	Adenocarcinoma	65 years
24	175	F	Rectum	Adenocarcinoma	68 years
25	180	M	Rectum	Adenocarcinoma	70 years
26	185	F	Rectum	Adenocarcinoma	72 years
27	190	M	Rectum	Adenocarcinoma	75 years
28	195	F	Rectum	Adenocarcinoma	78 years
29	200	M	Rectum	Adenocarcinoma	80 years
30	205	F	Rectum	Adenocarcinoma	82 years
31	210	M	Rectum	Adenocarcinoma	85 years
32	215	F	Rectum	Adenocarcinoma	88 years
33	220	M	Rectum	Adenocarcinoma	90 years
34	225	F	Rectum	Adenocarcinoma	92 years
35	230	M	Rectum	Adenocarcinoma	95 years
36	235	F	Rectum	Adenocarcinoma	98 years
37	240	M	Rectum	Adenocarcinoma	100 years
38	245	F	Rectum	Adenocarcinoma	102 years
39	250	M	Rectum	Adenocarcinoma	105 years
40	255	F	Rectum	Adenocarcinoma	108 years
41	260	M	Rectum	Adenocarcinoma	110 years
42	265	F	Rectum	Adenocarcinoma	112 years
43	270	M	Rectum	Adenocarcinoma	115 years
44	275	F	Rectum	Adenocarcinoma	118 years
45	280	M	Rectum	Adenocarcinoma	120 years
46	285	F	Rectum	Adenocarcinoma	122 years
47	290	M	Rectum	Adenocarcinoma	125 years
48	295	F	Rectum	Adenocarcinoma	128 years
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50	305	F	Rectum	Adenocarcinoma	132 years
51	310	M	Rectum	Adenocarcinoma	135 years
52	315	F	Rectum	Adenocarcinoma	138 years
53	320	M	Rectum	Adenocarcinoma	140 years
54	325	F	Rectum	Adenocarcinoma	142 years
55	330	M	Rectum	Adenocarcinoma	145 years
56	335	F	Rectum	Adenocarcinoma	148 years
57	340	M	Rectum	Adenocarcinoma	150 years
58	345	F	Rectum	Adenocarcinoma	152 years
59	350	M	Rectum	Adenocarcinoma	155 years
60	355	F	Rectum	Adenocarcinoma	158 years
61	360	M	Rectum	Adenocarcinoma	160 years
62	365	F	Rectum	Adenocarcinoma	162 years
63	370	M	Rectum	Adenocarcinoma	165 years
64	375	F	Rectum	Adenocarcinoma	168 years
65	380	M	Rectum	Adenocarcinoma	170 years
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<211> 9

<212> PRT

<213> Artificial Sequence

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<400> 36

<210> 37

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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

<400> 37

<210> 38

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<212> PRT

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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

<400> 38

Ser Ile Ile Asn Phe Glu Lys Leu
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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

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Arg Gly Tyr Val Tyr Gln Gly Leu
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<223> Description of Artificial Sequence: SYNTHETIC
PEPTIDE

<400> 40

Ala Ser Asn Glu Asn Met Asp Ala Met
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<223> Description of Artificial Sequence: SNYTHETIC

PEPTIDE

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